



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Past Due	Total	Supplier Name
P0041319	ACI001-VC	1	1	Net 30	M17-4-H1150-R1.500	17-4 SS Round Bar 1.500" MATERIAL: 17-4 PH CONDITION H1150 MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564 H1150 MIN. YIELD TENSILE 105 KSI / MIN. ULTIMATE TENSILE 135 KSI				12	10/25/2018	13		S123953	Stock	10/31/2018	\$ 68.80 / ft	1	\$682.70	Acier Ouellette Inc.
		2			M304B0.500X2.500	304 Bar .500 X 2.50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft					10/19/2018	12		S123954	Stock	10/31/2018	\$ 15.70 / ft	1	\$188.40	Acier Ouellette Inc.
		3			M6061T6B1.250X1.250	6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061- T6/T651/T65107/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					10/16/2018	12		S123955	Stock	10/31/2018	\$ 5.80 / ft	1	\$69.60	Acier Ouellette Inc.
		4			M6061T6B1.000X12.000	6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061- T6/T651/T65107/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24	10/25/2018	24		S123956	Stock	10/31/2018	\$ 56.44 / ft	1	\$1,354.56	Acier Ouellette Inc.
										Total:		61							\$1,902.41	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041319**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO041319

PO Date: 10/11/18

Due Date: 10/25/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
OCT 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: — Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quote no. sou0137125

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 AI		M17-4-H1150-R1.500		17-4 SS Round Bar 1.500" MATERIAL: 17-4 PH CONDITION H1150 MATERIAL: 17-4 PH / S I7400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION: AMS 5643 OR ASTM A564 H1150 MIN. YIELD TENSILE 105 KSI / MIN. ULTIMATE TENSILE 135 KSI	Firmed	-	10/25/18	12 ft	0 ft	12 ft	\$58.80/ft	\$705.60
2 AI		M304B0.500X2.500		304 Bar .500 X 2.50 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	10/19/18	12 ft	0 ft	12 ft	\$15.70/ft	\$188.40
3 AI		M6061T6B1.250X1.250		6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	10/16/18	12 ft	0 ft	12 ft	\$5.80/ft	\$69.60

Plex 10/11/18 11:16 AM dart.lavoie.chantal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200

PURCHASE ORDER **PO041319**

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4 <i>✓</i>		M6061T6B1.000X12.000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	10/25/18	24 ft <i>✓ 24ft</i>	0 ft	24 ft <i>At 18/11/01</i>	\$56.44/ft	\$1,354.56
Grand Total:												\$2,318.16

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/11/18 11:16 AM dart.lavoie.chantal

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0137125

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER T l.: (613) 632-5200 X 730

Customer N  CLI0001056
Date 2018/10/03
Revision N  0
Prices valid until 2018/10/10
Your Order N 
Processed by Denis Quenneville
Salesman DENIS
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HEAT TREAT 2 1/4 (R) R4140-214H 4927 1 X 6' STOCK	81.12	6.00	PI_\$CLB	6.00	PI	31.90			191.40
ROUND 4140 HEAT TREAT 3 (R) R4140-3H 4955 1 X 4' STOCK	100.20	4.00	PI_\$CLB	4.00	PI	59.10			236.42
ROUND 4140 HEAT TREAT 3 1/2 (R) R4140-312H 4941 1 X 4' STOCK SORRY NO 3 1/4	135.56	4.00	PI_\$CLB	4.00	PI	69.80			279.19
ROUND 4140 HEAT TREAT 5 (R) � R4140-5H 4981 1 X 4' STOCK	267.04	4.00	PI_\$CLB	4.00	PI	137.49			549.97
ROUND 17-4 H900 2.25 N STILL WAITING FOR ANSWER FROM SUPPLIER	0.00	1.00	UN	1.00	UN	0.00			0.00
ROUND 17-4 H1150 1.5 N 1 X 12' RANDOM LENGHT 7 TO 10 DAY	0.00	1.00	UN	1.00	UN	825.60			825.60
FLAT SS 1/2 X 2 1/2 SS304 HR RANDOM NS FSS-12212COULE-V 10513 1 X 12' RANDOM LENGHT 3/4 DAY	51.48	12.00	PI_\$CLB	12.00	PI	15.70			188.39
SQUARE ALU 1 1/4 6061-T6 * CAL-114 1775 1 X 12' STOCK	22.04	12.00	PI_\$CLB	12.00	PI	5.80			69.65
FLAT ALU 1 X 12 6061-T6 * FAL-112 2450 1 X 12' STOCK	169.34	12.00	PI_\$CLB	12.00	PI	56.44			677.29
ALUM 7075-T6 .375 X 6 N 6 X 4' CUT FROM PLATE 3/4 DAY	0.00	6.00	UN	6.00	UN	172.50			1 035.00

43.12596t

Date :

Next Page...

Date : _____ **Total (\$CAD)** **4 584.25**



Order - Factory

ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CO00115256

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

F-M

Shipped to

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att: PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Delivery Route 5

Customer N°
Date
Delivery date
Your order N°
Processed by
Salesman
Carrier
Credit Terme

CL10001056
2018/10/15
2018/10/26
PO041319
Denis Quenneville
OUELLETTE VALLEYFIELD
Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 FLAT SS 1/2 X 2 1/2 SS304 HR RANDOM NS FSS-12212COULE-V 1 X TRANSIT 3509 17/10 10513 heat: 603L	51.48	12.00	PL \$CLB	0.00	1X12					
2 SQUARE ALU 1 1/4 6061-T6 CAL-114 1 X 12' heat: 16097341B 1775	22.04	12.00	PL \$CLB	0.00	1X12		cut 20'			1X8'
3 FLAT ALU 1 X 12 6061-T6 FAL-112 2 X 12' heat: 6XDI70245 2450	338.69	24.00	PL \$CLB	0.00	2X12					
4 ROND STAINLESS 1 1/2 17-4 RANDOM NS RSS-112174-V 1 X AC20646-JG-18/10/29 heat: 275365 8868	71.15	12.00	PL \$CLB	0.00	12'10"					

Note: C: ATTENTION: MILL TEST REQUIS

Conditions:

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (LBS): 483.36

NIR: R-109516-6

Prepared By:

Verified By:

Delivered By:

Customer's Signature

Y M D

HST

Total (\$CAD)

Deposit

Balance

317.49

2 759.75

0.00

2 759.75

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

20646 N

Page 01 of 02

Certification Date
29-OCT-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T385103

AC00020646
PART NUMBER/NUMÉRO DE PIÈCE
510447

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD EXPORTEUR DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6

Description: 17-4 CF BAR COND H1150 ASTM A564
1-1/2 RD X 12" R/L Line Total: 76 LB
HEAT: 275365 ITEM: 510447

Specifications:
AMS 5643 V ASTM A564 T630 13E1 ASME SA564 T630 13
AMS 2303 F 3174-04 42

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.0360	0.56	0.023	0.001	0.46	15.19	4.57	0.23
CU	N	CB	TA	CBTA			
3.37	0.031	0.284	0.0012	0.285			

RCPT: R539244

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
COND H1150	133000.0	145300.0	21.8	66.4	297

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK
MICRO1:
MICRO CONTAINS NO MORE THAN 5% FERRITE
AMS NO :2301
SEVERITY :0.0
FREQUENCY:0.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
29-OCT-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT
AC00020646

Invoice Number
T385103

PART NUMBER/NUMÉRO DE PIÈCE
510447

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6

Description: 17-4 CF BAR COND H1150
1-1/2 RD X 12' R/L

ASTM A564
Line Total: 76 LB

HEAT: 275365 ITEM: 510447

COMMENTS

melt country italy/mfg usa
dfars compliant

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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JOANNE DESPRES


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564

PART NUMBER: M17-4- HHHH- R | X.XXX | WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X.XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E(w)7-728

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
B	REFORMAT DWG: S17400 TYPE 630 ADDED TO PURCHASE MATERIAL (ZN DB-1), ADD A564 SPEC (CB-1), REF PAR 08402A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
SHEET 1 OF 1			
TITLE 17-4 SS ROUND BAR			
SCALE NTS			
DATE 17.09.14			
COPYRIGHT © 2005 BY DART AEROSPACE LTD			
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

10513

TRA-3509

PHOENIX TUBE COMPANY, INC.
 Manufacturer of Stainless Ornamental and Structural Tubing
CERTIFICATION OF TEST

CUSTOMER ORDER# C113334

CUST REF NBR:

DATE SHIPPED: 01/23/18

SIZE 2-1/2" X 1/2" HRAP

SOURCE USA

VENDOR NAS

Specification:

CHEMISTRY THIS COLUMN:

ASTM A276-17

ASME SA276 COND. A

ASTM A479-17

ASME SA479-17

ASTM A240-16a

ASME SA240 13c

RoHS Compliant
 ASTM A262-15, PRACT/ E
 CORROSION OK, HRAP
 ASTM A484-16
 ASME SA484
 ASTM A480-16b
 ASME SA 480-16

NO WELD REPAIR
 EN 10204 2.2
 MILS 5059D AMEND 3
 AMS5511H/AMS5513J
 NACE MR0175/MR0103
 AMS 5639J / AMS 5647K

QTY SHIPPED EQUALS LBS.
 TYPE 304/304L DUAL CERTIFIED
 UNS# 30400 / 30403
 ASTM A666-15
 AMS-QQ-S-763D COND A
 CHEMISTRY ONLY

Phone# 5492603
 ORDER#: 449238
 QTY SHIPPED: 1110.0
 GRADE: 304L
 HEAT#: 603L
 TEST REPORT#: TR014623
 Report Date: 11/06/17

Ext:

NO WELD: BAR

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY
 OF OUR PROCESSING LINES. MATERIAL IS FREE OF MERCURY CONTAMINATION
 MATERIAL HAS BEEN HEATED TO A MINIMUM OF 1900 DEG. F AND IS SUBSEQUENTLY COOLED
 RAPIDLY TO PREVENT CARBIDE PRECIPITATION. SOLUTION ANNEALED

Chemical Analysis

C	MN	P	S	SI	CR	NI	MO	CU	CO	N2	TI
.018	1.74	.033	.002	.27	18.08	8.04	.34	.46	N/A	.09	N/A

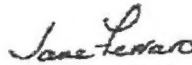
Physical Analysis

Hardness	YIELD		TENSILE		OTHER	
	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 79	44900	N/A	86870	N/A	66	73

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS
 MECHANICAL PROPERTIES ARE MEASURED FROM SHEET COIL AND PLATE BEFORE CUTTING

Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.



1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 865-5337
 FAX NUMBER: 610-865-4073

208587

heat: 603L

10513

SPECIFICATION CONTROL DRAWING

 PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

 SPECIFICATION:

PART NUMBER: M304B | T | TTT | X | WWW | WWW |
THICK | WIDTH

WHERE "T, TTT" = THICKNESS IN INCHES
AND "WWW, WWW" = WIDTH IN INCHES

EG. 0.5" X 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000



2010-11-30
W

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE FROM "304/316 BAR" TO "304/316 BAR/PLATE". REF. PAR. 08-020A.	MB	10.11.25
B	REFORMAT DWG. AND SPECS. (ZIN D6-1). REF. PAR. 08-020A.	CP	09.07.15
A	NEW ISSUE	PH	05.08.10
REV	DESCRIPTION	BY	DATE
DRAWN	PH	DART AEROSPACE LTD	
CHECKED	PH	HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	PH	DRAWING NO. M304B	REV. C
APPROVED	PH	TITLE	SHEET 1 OF 1
DE APPR.	PH	304/316 BAR/PLATE	SCALE
DATE	10.11.25	NTS	

COMPANY: DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

#1775

CAL-114-V

49648 TRA-1067

MILL TEST

SHIP TO ACIER OUELLETTE		CERT CODE: 1	DATE OF SHIPMENT Sep/29/2016		ORDER NO. 197683	MANIFEST NO. 357684
SO DESCRIPTION 1.250" SQUARE		CUSTOMER PO 100664	DIE NUMBER S 4763	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
		CUSTOMER PART NUMBER DT04763	ALLOY 6061	TEMPER T6	CERTIFICATION MILL TEST ASTM B221-14	
			PART DESCRIPTION 1.250" SQUARE			

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/22/2016	44.70	39.60	10.80	89.9,90.4,90.7	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Other
16097341B	A.11	6061	0.55	0.17	0.21	0.01	0.8	0.08	0	0.01	0	0
												Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

Heat: 16097341B

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6 T651/T65107/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION REFORMAT NOTIS, ADD ASTM B211B221 (2N D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	AS		
MFG. APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAYKESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M6061T6B SHEET 1 OF 1			
TITLE SCALE			
6061-T6 BAR NTS			
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2450

FAL-112

17484

51427



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 25 March, 2017

PO number: P-17025

Shipping Ref No.: 17-0459

LC No.: DC HMN710996

Date of issue: 15 March, 2017

Item Code: 1905900

Die Number: D00131

Alloy & Temper: 6061-T6511

Production Description: FLAT BAR 1" X 12" X 12' 6061-T6511 D00131

Length (Inch): 144

Bundle number: P-17025-004

Heat Number: SxD170245

Date: 3/6/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.624	0.921	0.208	0.270	0.017	0.102	0.012	0.023	97.732	<0.05	<0.10	3/3/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
40.0	35.9	10.2	3/3/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R 211561

Heat: SxD 170245

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
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E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-03-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	AS		
MFG APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAYMESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M6061T6B SHEET 1 OF 1			
TITLE SCALE			
6061-T6 BAR NTS			
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